Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended) A computer-implemented method for highlighting a selected object on a display, the method comprising:

    rasterizing base graphic data to provide a base graphic raster, the base graphic raster comprising at least one graphic object including a selected graphic object to be highlighted;

    providing selection graphic data including a graphic object corresponding to the selected graphic object;

    rasterizing the selection graphic data to yield a selection graphic raster; and,

    compositing the base graphic raster and the selection graphic raster to yield an output graphic raster for display.

2.   (Original)   A method according to claim 1 wherein providing the selection graphic data comprises copying the selected graphic object from the base graphic data.

3.   (Original)   A method according to claim 2 wherein providing the selection graphic data comprises assigning

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a highlighting attribute to the copied selected graphic

object.

4.   (Original)   A method according to claim 3 wherein

rasterizing the selection graphic data to yield the

selection graphic raster comprises assigning highlighting

values only to pixels in the selection graphic raster

corresponding to portions of the selected graphic object

that are not overlapped by other non-transparent graphic

objects.

5.   (Original)   A method according to claim 4 wherein

compositing the base graphic raster and the selection

graphic raster comprises altering values of pixels from

the base graphic raster which correspond to pixels of the

selection graphic raster having highlighting values.

6.   (Original)   A method according to claim 2 wherein

providing the selection graphic data comprises copying

from the base graphic data non-selected objects that

overlap the selected graphic object.

7.   (Original)   A method according to claim 6 wherein the

highlighting attribute comprises a color attribute.

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8.   (Original)   A method according to claim 6 wherein providing the selection graphic data comprises assigning a highlighting attribute to the copied selected graphic object.

9.   (Original)   A method according to claim 8 wherein providing the selection graphic data comprises assigning a blank attribute to the copied non-selected objects.

10.   (Original)   A method according to claim 9 wherein rasterizing the selection graphic data comprises assigning highlighting values to pixels associated with objects having highlighting attributes and assigning non-highlighting values to pixels associated with objects having blank attributes.

11.   (Original)   A method according to claim 10 wherein compositing the base graphic raster and the selection graphic raster comprises altering values of pixels from the base graphic raster which correspond to pixels of the selection graphic raster having highlighting values.

12.   (Original)   A method according to claim 9 wherein the highlighting attribute and the blank attribute each comprise different color attributes.

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13.   (Original)   A method according to claim 8 wherein
       rasterizing the selection graphic data to yield the
       selection graphic raster comprises assigning highlighting
       values to pixels corresponding to any objects in the
       selection graphics data having highlighting attributes.

14.   (Original)   A method according to claim 8 wherein the
       highlighting attribute comprises a color attribute.

15.   (Original)   A method according to claim 2 wherein
       rasterizing the selection graphic data to yield the
       selection graphic raster comprises assigning highlighting
       values to pixels corresponding to the copied selected
       graphic object.

16.   (Original)   A method according to claim 15 wherein
       · compositing the base graphic raster and the selection
       graphic raster comprises altering values of pixels from
       the base graphic raster which correspond to pixels of the
       selection graphic raster having highlighting values.

17.   (Currently Amended) A method according to claim 2
       comprising simplifying the copied selected graphic object
       by replacing the copied selected graphic object with a
       simpler object having a boundary the same as a boundary
       of the copied selected graphic object.

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18.   (Currently Amended)   A method according to claim ~~17~~
       ~~where~~ 2 comprising simplifying the selected graphic
       object ~~comprises~~ by setting a plurality of color
       attributes of the selected graphic object to specify one
       color.

19.   (Original)   A method according to claim 17 wherein an
       exposed portion of the selected graphic object has an
       outline and simplifying the selected graphic object
       comprises replacing the selected graphic object with a
       shape bounded by the outline.

20.   (Original)   A method according to claim 2 wherein an
       exposed portion of the selected graphic object has an
       outline and copying the selected graphic object from the
       base graphic data comprises replacing the selected
       graphic object with a shape bounded by the outline.

21.   (Currently Amended) A method according to claim 1 ~~wherein~~
       comprising, in the selection graphic raster ~~comprises~~,
       assigning highlighting values ~~corresponding~~ to the
       graphic object corresponding to the selected object ~~and~~
       wherein compositing the base graphic raster and the
       selection graphic raster comprises altering values of
       pixels from the base graphic raster which correspond to

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pixels of the selection graphic raster having
highlighting values.

22.   (Original)   A method according to claim 21 wherein
      altering values of pixels from the base graphic raster
      comprises replacing the values of pixels from the base
      graphic raster with the highlighting values of
      corresponding pixels in the selection graphic raster.

23.   (Original)   A method according to claim 21 wherein
      altering values of pixels from the base graphic raster
      comprises, for each pixel to be altered, computing a
      function to modify the value of the pixel to be altered,
      the function based on at least one of: the value of the
      pixel to be altered and the highlighting value of the
      corresponding pixel in the selection graphic raster.

24.   (Original)   A method according to claim 23 wherein the
      function comprises color inversion of the value of the
      pixel to be altered.

25.   (Original)   A method according to claim 23 wherein the
      function comprises performing one of a plurality of
      available color modification operations and wherein
      computing the function to modify the value of the pixel
      to be altered comprises selecting one of the plurality of

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available color modification operations based on the

highlighting value of the corresponding pixel in the

selection graphic raster and applying the selected color

modification operation to the value of the pixel to be

altered.

26.   (Original)   A method according to claim 25 wherein the

plurality of color modification operations comprises one

or more of:

        performing color inversion on the value of the pixel

to be altered;

        increasing the value of the pixel to be altered by a

predetermined amount;

        decreasing the value of the pixel to be altered by a

predetermined amount; and,

        setting the value of the pixel to be altered to a

predetermined value.

27.   (Canceled)

28.   (Original)   A method according to claim 27 wherein

altering values of selected ones of the pixels from the

base graphic raster comprises selectively altering values

of pixels in accordance with a pattern.

29.   (Original)   A method according to claim 23 wherein
      compositing the base graphic raster and the selection
      graphic raster comprises identifying contiguous regions
      of pixels in the base graphic raster where corresponding
      pixels in the selection graphic raster have highlighting
      values.

30.   (Original)   A method according to claim 29 wherein
      altering values of pixels from the base graphic raster
      comprises altering values of a pattern of selected pixels
      in the contiguous regions of pixels in the base graphic
      raster.

31.   (Original)   A method according to claim 23 wherein
      altering values of pixels from the base graphic raster
      comprises altering values of all of the pixels in the
      base graphic raster which correspond to pixels of the
      selection graphic raster having highlighting values.

32.   (Original)   A method according to claim 1 wherein
      providing the selection graphic data comprises
      replicating the base graphic data and modifying
      non-selected objects in the replicated base graphic data
      to have blank attributes.

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33.   (Original)   A method according to claim 32 wherein the
      blank attribute comprises a color attribute.

34.   (Original)   A method according to claim 1 wherein
      providing the selection graphic data comprises
      replicating the base graphic data and deleting
      non-selected objects from the replicated base graphic
      data.

35.   (Original)   A method according to claim 1 wherein
      providing the selection graphic data comprises
      replicating the base graphic data and modifying selected
      objects in the replicated data to have highlighting
      attributes.

36.   (Currently Amended) A method according to claim 35
      comprising [[,]] modifying non-selected objects in the
      replicated data to have non-highlighting attributes.

37.   (Original)   A method according to claim 35 wherein the
      highlighting attribute and the blank attribute each
      comprise color attributes.

38.   (Original)   A method according to claim 1 wherein the
      selection graphic data and the base graphic data each
      comprise a file having a file format and the selection

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graphic data and the base graphic data have the same file

format.

39.   (Original)   A method according to claim 1 wherein

rasterizing the base graphic data is performed by a

rendering engine and rasterizing the selection graphic

data is also performed by the rendering engine.

40.   (Original)   A method according to claim 1 wherein

compositing the base graphic raster and the selection

graphic raster comprises identifying contiguous regions

of pixels in the base graphic raster where corresponding

pixels in the selection graphic raster have highlighting

values.

41.   (Original)   A method according to claim 40 wherein

compositing the base graphic raster and the selection

graphic raster comprises altering values of a pattern of

selected pixels in the contiguous regions of pixels from

the base graphic raster.

42.   (Original)   A method according to claim 1 wherein the

graphic objects in the base graphic data and the

selection graphic data are elements of a graphic

description language file or stream.

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43.   (Original)   A method according to claim 42 wherein the

file or stream comprises tags located to delineate the

graphic objects.

44.   (Original)   A method according to claim 1 comprising

subsequently removing highlighting by compositing the

selection graphic raster with the graphic raster for

display.

45.   (Original)   A method according to claim 1 comprising

subsequently causing the highlighting to change

periodically in time by periodically compositing the

selection graphic raster with the output graphic raster.

46.   (Currently Amended) A method according to claim 1 wherein

the base graphic raster includes a plurality of selected

graphic objects to be highlighted, the plurality of

selected graphic objects including at least graphic

objects of first and second types , the first and second

types being different from one another and each selected

from the group consisting of: trap objects, non-trap

objects, object outlines, object fills, trap outlines,

trap fills, group graphic object outlines, group graphic

object fills, and wherein providing the selection graphic

data comprises providing in the selection graphic data an

object corresponding to each of the plurality of selected

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graphic objects and assigning a highlighting attribute to

each of the objects, the method comprising assigning

different highlighting attributes to objects

corresponding to graphic objects of the first and second

types.

47.   (Currently Amended) A method according to claim 46

wherein providing, in the selection graphic data, an

object corresponding to each of the plurality of selected

graphic objects comprises copying the plurality of

selected graphic objects from the base graphic data.

48.   (Currently Amended) A method according to claim 47

. wherein copying the plurality of selected graphic objects

comprises simplifying one or more of the plurality of

selected graphic objects wherein an exposed portion of

the one or more of the plurality of selected graphic

objects has an outline and simplifying the selected

graphic object comprises replacing the selected graphic

object with a shape bounded by the outline.

49.   (Original)   A method according to claim 2 wherein

rasterizing the selection graphic data comprises

assigning highlighting values to pixels in an area of the

selection graphic raster corresponding to the copied

selected graphic object and compositing the base graphic

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raster and the selection graphic raster comprises

patterning areas within the output graphic raster

corresponding to the area of the selection graphic

raster.

50.   (Original)   A method according to claim 49 comprising

creating a plurality of output graphic rasters, for each

of the plurality of output graphic rasters differently

patterning the areas within the output graphic raster,

and displaying the plurality of output graphic rasters in

rotation.

51.   (Original)   A method according to claim 1 wherein the

base graphic raster has a higher resolution than the

selection graphic raster.

52.   (Currently Amended) A ~~computer~~ system ~~for highlighting a~~
~~selected object on a display, the system~~ comprising a

data ~~processing system~~ processor, a display and a memory

containing ~~executing~~ instructions which , when executed

by the data processor, cause the data ~~processing system~~

processor to:

        rasterize base graphic data to provide a base

graphic raster, the base graphic raster comprising at

least one graphic object including a selected graphic

object to be highlighted;

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provide selection graphic data including a graphic

object corresponding to the selected graphic object;

rasterize the selection graphic data to yield a

selection graphic raster; and,

composite the base graphic raster and the selection

graphic raster to yield an output graphic raster for

display.

53.   (Currently Amended) Apparatus for displaying a raster

image with areas corresponding to selected objects

highlighted, the apparatus comprising:

a user interface configured to permit selection of

one or more objects of base graphic data comprising a

plurality of graphic objects;

means for producing a selection graphic data wherein

selected objects are represented by a highlighting

attribute;

a rendering engine configured to rasterize the base

graphic data to yield a base graphic raster comprising

the selected objects and configured to rasterize the

selection graphic data to yield a selection graphic

raster comprising objects corresponding to the selected

objects; and,

a compositing engine configured to composite the base

graphic raster and the selection graphic raster to yield a

graphic raster for display.

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